

# AZM800

## Generation 6 *MX* Apartment Zone Module

### Features

- Compatible with *MX* Addressable Loop on VIGILANT *MX1* and *MX4428* panels
- *MX* Loop Powered
- Built-in *MX* short-circuit isolator
- Switching and supervision of local 100V speaker line spur (1 or 2 branch)
- Connection and supervision of local conventional heat/smoke/MCP detector circuit
- Integral/Remote smoke alarm silence/hush button
- Programmable control relay output (unsupervised) configurable NC or NO

The AZM800 is an *MX TECHNOLOGY* addressable module which integrates many of the key functions required for Type 5 fire alarm systems as defined in the NZ Building Code Compliance Documents, and in particular providing “hush”-able local smoke alarm functions with brigade calling heat detectors and call points on the same circuit.

Combined with the powerful programming capabilities of the VIGILANT *MX1* and *MX4428*, the AZM800 is ideally suited for apartments and other residential occupancies.

### Typical Applications

With the ability to utilise conventional and/or *MX* addressable detectors in the same apartment complex, the AZM800 provides a very flexible fire alarm solution.

A centralised 100V line tone generator is controlled globally by the fire panel (2 tones) and selectively switched by each AZM800 to individual apartments (and common areas) as required. Loudspeakers in common areas must be controlled by a dedicated AZM800 (or a separate tone generator) so these speakers are activated by a general Evacuation tone and not by the Alert tone for a local smoke alarm in an apartment.

### Integral Line Isolation

The AZM800 operates on the robust VIGILANT *MX* Digital loop. An integral short-circuit line isolator automatically provides protection against short-circuit cable faults thus reducing the need for additional line isolator modules.

### Address Setting

The AZM800 is shipped with a default (invalid) address of 255 and must be set to the correct loop address using the 850EMT or *MX* Service Tool.



### Specifications

Loop Voltage <sup>1</sup>	20V to 40Vdc polarity conscious
Quiescent Current	4mA (typ.)
Alarm Current	17mA (max., LED on)
Local Circuit Resistance	10 Ohm (max.)
ELD Resistor	9k1/18k Ohm <sup>2</sup>
Local 100V spur	10W, 56k Ohm ELD
Dimensions (HWD)	118 x 75 x 34 mm
Weight	160g
Colour	White
Ambient Temperature	-10°C to +45°C
Relative Humidity	Up to 95% (non-condensing)
FPANZ Listed	VF/653 (FP0959) VF/654 (FP0962)

*Indoor Applications Only*

#### Part Numbers

FP0959	AZM800
FP0962	AZM800-Remote Hush Unit

1. Addressable loop voltage provided by *MX* CIE.

2. Normal / Low Current setting.

**FP0959 Contents:** AZM800 module c/w white cover plate; fasteners for flush box, blank white switchplate cover; 4x coloured cable ties: Blk, Blu, Grn, Yel, 4-way terminal blocks; 2x 9k1 EOLRs; 1x 18k EOLR – low current detector circuit; 1x 56k EOLR – local loudspeaker circuit; Install Instructions LT0459.

**FP0962 Contents:** AZM-RHU module c/w white cover plate; fasteners for flush box.

### Number of Apartments per loop

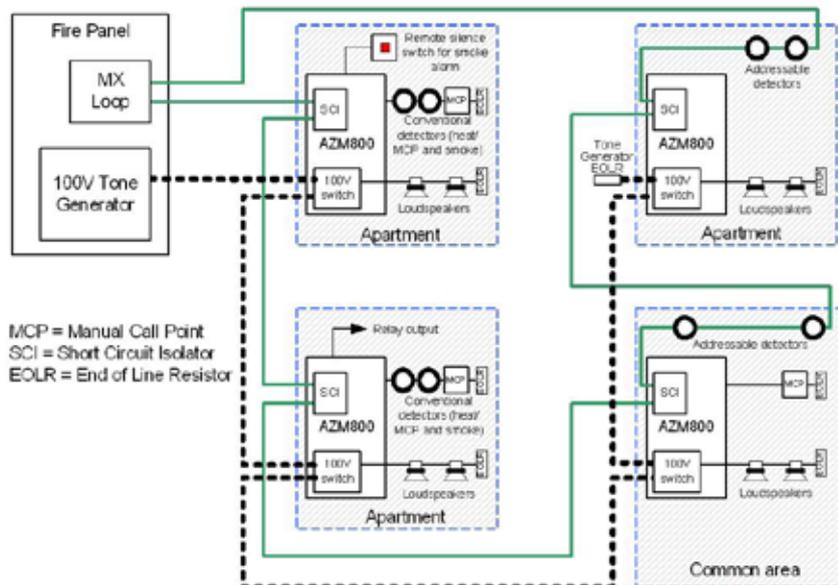
With no addressable detectors and just conventional smoke/heat detectors and MCPs connected to AZM800 circuits, approximately 160 areas could be covered on a single *MX1* loop – each area AZM800 uses 1 *MX* address (250 maximum addresses per loop).

## System Diagram

Representative wiring diagram showing the use of AZM800s in a typical apartment complex.

## Wiring

Cost-effective standardised wiring is another benefit of the AZM800. All cables serving the apartment terminate at the AZM800 (which could be located somewhere outside the apartment for ease of service, with a remote hush button located inside). Note that, provided it is physically separated from other wiring, loudspeaker cabling within the apartment should not require shielded cable.



## Mounting Requirements

The AZM800 mounts on a standard single electrical flush box. Since each AZM800 will have at least 5 and up to 8 cables connected to it, the flush box must have enough room for these cables or have an open back. Use of a suitable flush box is imperative for a successful installation.

## Compatible Devices

The AZM800 is compatible with the types and quantities of detectors listed in the table below. Detector quantities depend on the AZM800 detector configuration. The total standby current of all detectors connected to an AZM800 must not exceed 700µA for the Normal detector circuit setting or 150µA for the Low Current detector circuit setting.

Brand	Detector Type	Alarm Type	Standby Current (µA)	Max. Number (Normal setting)	Max. Number (Low Current setting)
System Sensor	2351E	Smoke/Heat *	65	10	2
	2351TEM	Smoke/Heat *	80	8	1
	4351E	Heat *	90	8	1
	5351E	Heat *	80	8	1
	1151	Smoke	40	16	3
	2151	Smoke	45	16	3
Vigilant	614CH	CO/Heat *	70	10	2
	614P	Smoke	60	11	2
	614T	Heat *	85	8	1
Vigilant	Indi-VIGIL Mk2 Heat Detector	Heat/MCP	18	35	8
	1841 Indicating Manual Call Point	Heat/MCP	18	35	8
	PA1022 Clean Contact Adaptor	Heat/MCP	18	35	8

\* these heat detectors will not produce a brigade alarm unless the AZM800 is specially configured, in which case, any smoke or heat alarm on that AZM800 will produce a latching brigade alarm. Consider for ceiling spaces or common areas.

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VIGILANT, a respected regional brand of Johnson Controls, is a technology leader in the Australian and New Zealand fire detection markets with AS and NZS product approvals. The VIGILANT product line includes a comprehensive range of MX TECHNOLOGY fire detection products and the market-leading QE90 voice evacuation systems. VIGILANT product is widely supported throughout Australia and New Zealand by a network of installation companies, service companies and distributors.

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